

## Appendix D

### Projections of Oil Production Capacity and Oil Production in Five Cases:

- Reference
- High World Oil Price
- Low World Oil Price
- High Non-OPEC Supply
- Low Non-OPEC Supply

**Table D1. World Oil Production Capacity by Region and Country, Reference Case, 1990-2020**  
 (Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	1999	2005	2010	2015	2020
<b>OPEC</b>						
<b>Persian Gulf</b>						
Iran . . . . .	3.2	3.9	4.0	4.3	4.6	4.8
Iraq . . . . .	2.2	2.8	3.1	3.8	4.7	5.8
Kuwait . . . . .	1.7	2.6	2.8	3.5	4.1	5.0
Qatar . . . . .	0.5	0.6	0.5	0.6	0.7	0.7
Saudi Arabia . . . . .	8.6	11.4	12.6	14.7	18.4	23.1
United Arab Emirates . . . . .	2.5	2.7	3.0	3.5	4.4	5.1
<b>Total Persian Gulf.</b> . . . . .	<b>18.7</b>	<b>24.0</b>	<b>26.0</b>	<b>30.4</b>	<b>36.9</b>	<b>44.5</b>
<b>Other OPEC</b>						
Algeria . . . . .	1.3	1.4	1.9	2.1	2.3	2.5
Indonesia . . . . .	1.5	1.7	1.5	1.5	1.5	1.5
Libya . . . . .	1.5	1.5	2.1	2.5	2.8	3.2
Nigeria . . . . .	1.8	2.2	2.8	3.2	4.0	4.7
Venezuela . . . . .	2.4	3.4	4.2	4.6	5.0	6.0
<b>Total Other OPEC.</b> . . . . .	<b>8.5</b>	<b>10.2</b>	<b>12.5</b>	<b>13.9</b>	<b>15.6</b>	<b>17.9</b>
<b>Total OPEC</b> . . . . .	<b>27.2</b>	<b>34.2</b>	<b>38.5</b>	<b>44.3</b>	<b>52.5</b>	<b>62.4</b>
<b>Non-OPEC</b>						
<b>Industrialized</b>						
United States . . . . .	9.7	9.3	9.0	8.7	9.0	9.3
Canada . . . . .	2.0	2.7	3.0	3.2	3.4	3.5
Mexico . . . . .	3.0	3.5	4.1	4.2	4.4	4.4
Australia . . . . .	0.7	0.8	0.8	0.8	0.8	0.8
North Sea . . . . .	4.2	6.3	6.6	6.5	6.2	6.0
Other. . . . .	0.5	0.7	0.8	0.8	0.8	0.7
<b>Total Industrialized</b> . . . . .	<b>20.1</b>	<b>23.3</b>	<b>24.3</b>	<b>24.2</b>	<b>24.6</b>	<b>24.7</b>
<b>Eurasia</b>						
China . . . . .	2.8	3.2	3.1	3.1	3.0	3.0
Former Soviet Union. . . . .	11.4	7.2	9.6	11.9	13.6	14.8
Eastern Europe . . . . .	0.3	0.3	0.3	0.3	0.3	0.4
<b>Total Eurasia</b> . . . . .	<b>14.5</b>	<b>10.7</b>	<b>13.0</b>	<b>15.3</b>	<b>16.9</b>	<b>18.2</b>
<b>Other Non-OPEC</b>						
Central and South America . . . . .	2.3	3.6	4.2	4.8	5.5	6.4
Middle East . . . . .	1.4	1.9	2.2	2.4	2.5	2.4
Africa . . . . .	2.2	2.8	3.1	3.8	4.6	5.8
Asia . . . . .	1.7	2.2	2.6	2.6	2.6	2.5
<b>Total Other Non-OPEC</b> . . . . .	<b>7.6</b>	<b>10.5</b>	<b>12.1</b>	<b>13.6</b>	<b>15.2</b>	<b>17.1</b>
<b>Total Non-OPEC</b> . . . . .	<b>42.2</b>	<b>44.5</b>	<b>49.4</b>	<b>53.1</b>	<b>56.7</b>	<b>60.0</b>
<b>Total World</b> . . . . .	<b>69.4</b>	<b>78.7</b>	<b>87.9</b>	<b>97.4</b>	<b>109.2</b>	<b>122.4</b>

Note: OPEC = Organization of Petroleum Exporting Countries.

Sources: **History:** Energy Information Administration (EIA), Energy Markets and Contingency Information Division. **Projections:** EIA, Office of Integrated Analysis and Forecasting, World Energy Projection System; and U.S. Department of the Interior, U.S. Geological Survey, *World Petroleum Assessment 2000* (Reston, VA, July 2000).

## Appendix D

**Table D2. World Oil Production Capacity by Region and Country, High Oil Price Case, 1990-2020**  
 (Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	1999	2005	2010	2015	2020
<b>OPEC</b>						
<b>Persian Gulf</b>						
Iran . . . . .	3.2	3.9	3.8	4.1	4.2	4.5
Iraq . . . . .	2.2	2.9	2.9	3.5	4.2	5.1
Kuwait . . . . .	1.7	2.6	2.6	3.3	3.8	4.5
Qatar . . . . .	0.5	0.8	0.5	0.6	0.7	0.7
Saudi Arabia . . . . .	8.6	11.6	11.6	12.7	15.6	19.5
United Arab Emirates . . . . .	2.5	2.7	2.8	3.1	3.7	4.6
<b>Total Persian Gulf.</b> . . . . .	<b>18.7</b>	<b>24.5</b>	<b>24.2</b>	<b>27.3</b>	<b>32.2</b>	<b>38.9</b>
<b>Other OPEC</b>						
Algeria . . . . .	1.3	1.4	1.6	1.9	2.1	2.4
Indonesia . . . . .	1.5	1.7	1.5	1.5	1.5	1.5
Libya . . . . .	1.5	1.6	1.7	2.1	2.3	2.8
Nigeria . . . . .	1.8	2.3	2.4	2.8	3.4	4.2
Venezuela . . . . .	2.4	3.4	3.7	4.2	4.8	5.7
<b>Total Other OPEC.</b> . . . . .	<b>8.5</b>	<b>10.4</b>	<b>10.9</b>	<b>12.5</b>	<b>14.1</b>	<b>16.6</b>
<b>Total OPEC</b> . . . . .	<b>27.2</b>	<b>34.9</b>	<b>35.1</b>	<b>39.8</b>	<b>46.3</b>	<b>55.5</b>
<b>Non-OPEC</b>						
<b>Industrialized</b>						
United States . . . . .	9.7	9.0	9.5	9.3	9.8	10.1
Canada . . . . .	2.0	2.6	3.0	3.2	3.4	3.6
Mexico . . . . .	3.0	3.4	4.1	4.3	4.5	4.5
Australia . . . . .	0.7	0.7	0.9	0.9	0.8	0.8
North Sea . . . . .	4.2	6.3	6.6	6.4	6.3	6.1
Other. . . . .	0.5	0.8	0.8	0.8	0.8	0.7
<b>Total Industrialized</b> . . . . .	<b>20.1</b>	<b>22.8</b>	<b>24.9</b>	<b>24.9</b>	<b>25.6</b>	<b>25.8</b>
<b>Eurasia</b>						
China . . . . .	2.8	3.2	3.1	3.1	3.1	3.1
Former Soviet Union. . . . .	11.4	7.4	9.8	12.2	13.9	15.1
Eastern Europe . . . . .	0.3	0.3	0.3	0.3	0.3	0.4
<b>Total Eurasia</b> . . . . .	<b>14.5</b>	<b>10.9</b>	<b>13.2</b>	<b>15.6</b>	<b>17.3</b>	<b>18.6</b>
<b>Other Non-OPEC</b>						
Central and South America . . . . .	2.3	3.8	4.2	4.9	5.7	6.6
Middle East . . . . .	1.4	1.9	2.3	2.4	2.6	2.5
Africa . . . . .	2.2	2.9	3.2	3.9	4.8	5.9
Asia . . . . .	1.7	2.3	2.6	2.7	2.6	2.6
<b>Total Other Non-OPEC</b> . . . . .	<b>7.6</b>	<b>10.9</b>	<b>12.3</b>	<b>13.9</b>	<b>15.7</b>	<b>17.6</b>
<b>Total Non-OPEC</b> . . . . .	<b>42.2</b>	<b>44.6</b>	<b>50.4</b>	<b>54.4</b>	<b>58.6</b>	<b>62.0</b>
<b>Total World</b> . . . . .	<b>69.4</b>	<b>79.5</b>	<b>85.5</b>	<b>94.2</b>	<b>104.9</b>	<b>117.5</b>

Note: OPEC = Organization of Petroleum Exporting Countries.

Sources: **History:** Energy Information Administration (EIA), Energy Markets and Contingency Information Division. **Projections:** EIA, Office of Integrated Analysis and Forecasting, World Energy Projection System; and U.S. Department of the Interior, U.S. Geological Survey, *World Petroleum Assessment 2000* (Reston, VA, July 2000).

**Table D3. World Oil Production Capacity by Region and Country, Low Oil Price Case, 1990-2020**  
 (Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	1999	2005	2010	2015	2020
<b>OPEC</b>						
<b>Persian Gulf</b>						
Iran . . . . .	3.2	3.9	4.2	4.5	4.8	5.0
Iraq . . . . .	2.2	2.9	3.5	4.2	5.1	6.2
Kuwait . . . . .	1.7	2.6	3.0	3.7	4.5	5.5
Qatar . . . . .	0.5	0.8	0.5	0.6	0.7	0.8
Saudi Arabia . . . . .	8.6	11.6	15.4	19.3	24.4	31.1
United Arab Emirates . . . . .	2.5	2.7	3.5	4.0	4.8	5.7
<b>Total Persian Gulf.</b> . . . . .	<b>18.7</b>	<b>24.5</b>	<b>30.1</b>	<b>36.3</b>	<b>44.3</b>	<b>54.3</b>
<b>Other OPEC</b>						
Algeria . . . . .	1.3	1.4	1.9	2.3	2.5	2.8
Indonesia . . . . .	1.5	1.7	1.5	1.5	1.5	1.5
Libya . . . . .	1.5	1.6	2.2	2.7	3.2	3.8
Nigeria . . . . .	1.8	2.3	2.9	3.6	4.4	5.0
Venezuela . . . . .	2.4	3.4	4.2	4.8	5.5	6.5
<b>Total Other OPEC.</b> . . . . .	<b>8.5</b>	<b>10.4</b>	<b>12.7</b>	<b>14.9</b>	<b>17.1</b>	<b>19.6</b>
<b>Total OPEC</b> . . . . .	<b>27.2</b>	<b>34.9</b>	<b>42.8</b>	<b>51.2</b>	<b>61.4</b>	<b>73.9</b>
<b>Non-OPEC</b>						
<b>Industrialized</b>						
United States . . . . .	9.7	9.0	8.4	7.9	8.0	8.2
Canada . . . . .	2.0	2.6	3.0	3.1	3.3	3.4
Mexico . . . . .	3.0	3.4	4.0	4.1	4.2	4.2
Australia . . . . .	0.7	0.7	0.8	0.8	0.8	0.8
North Sea . . . . .	4.2	6.3	6.6	6.4	6.1	5.8
Other. . . . .	0.5	0.8	0.8	0.8	0.8	0.7
<b>Total Industrialized</b> . . . . .	<b>20.1</b>	<b>22.8</b>	<b>23.6</b>	<b>23.1</b>	<b>23.2</b>	<b>23.1</b>
<b>Eurasia</b>						
China . . . . .	2.8	3.2	3.0	3.0	2.9	2.9
Former Soviet Union. . . . .	11.4	7.4	9.5	11.6	13.2	14.2
Eastern Europe . . . . .	0.3	0.3	0.3	0.3	0.3	0.3
<b>Total Eurasia</b> . . . . .	<b>14.5</b>	<b>10.9</b>	<b>12.8</b>	<b>14.9</b>	<b>16.4</b>	<b>17.4</b>
<b>Other Non-OPEC</b>						
Central and South America . . . . .	2.3	3.8	4.0	4.7	5.4	6.2
Middle East . . . . .	1.4	1.9	2.2	2.3	2.4	2.3
Africa . . . . .	2.2	2.9	3.0	3.6	4.4	5.6
Asia . . . . .	1.7	2.3	2.6	2.5	2.5	2.4
<b>Total Other Non-OPEC</b> . . . . .	<b>7.6</b>	<b>10.9</b>	<b>11.8</b>	<b>13.1</b>	<b>14.7</b>	<b>16.5</b>
<b>Total Non-OPEC</b> . . . . .	<b>42.2</b>	<b>44.6</b>	<b>48.2</b>	<b>51.1</b>	<b>54.3</b>	<b>57.0</b>
<b>Total World</b> . . . . .	<b>69.4</b>	<b>79.5</b>	<b>91.0</b>	<b>102.3</b>	<b>115.7</b>	<b>130.9</b>

Note: OPEC = Organization of Petroleum Exporting Countries.

Sources: **History:** Energy Information Administration (EIA), Energy Markets and Contingency Information Division. **Projections:** EIA, Office of Integrated Analysis and Forecasting, World Energy Projection System; and U.S. Department of the Interior, U.S. Geological Survey, *World Petroleum Assessment 2000* (Reston, VA, July 2000).

## Appendix D

**Table D4. World Oil Production Capacity by Region and Country, High Non-OPEC Supply Case, 1990-2020**  
 (Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	1999	2005	2010	2015	2020
<b>OPEC</b>						
<b>Persian Gulf</b>						
Iran . . . . .	3.2	3.9	4.0	4.2	4.6	4.9
Iraq . . . . .	2.2	2.9	2.9	3.6	4.4	5.3
Kuwait . . . . .	1.7	2.6	2.8	3.4	3.9	4.6
Qatar . . . . .	0.5	0.8	0.5	0.6	0.7	0.7
Saudi Arabia . . . . .	8.6	11.6	11.7	13.3	15.9	18.9
United Arab Emirates . . . . .	2.5	2.7	2.9	3.4	3.9	4.8
<b>Total Persian Gulf.</b> . . . . .	<b>18.7</b>	<b>24.5</b>	<b>24.8</b>	<b>28.5</b>	<b>33.4</b>	<b>39.2</b>
<b>Other OPEC</b>						
Algeria . . . . .	1.3	1.4	1.8	2.0	2.3	2.5
Indonesia . . . . .	1.5	1.7	1.6	1.5	1.5	1.5
Libya . . . . .	1.5	1.6	1.9	2.2	2.5	2.9
Nigeria . . . . .	1.8	2.3	2.6	2.9	3.4	4.2
Venezuela . . . . .	2.4	3.4	3.8	4.3	4.9	5.7
<b>Total Other OPEC.</b> . . . . .	<b>8.5</b>	<b>10.4</b>	<b>11.7</b>	<b>12.9</b>	<b>14.6</b>	<b>16.8</b>
<b>Total OPEC</b> . . . . .	<b>27.2</b>	<b>34.9</b>	<b>36.5</b>	<b>41.4</b>	<b>48.0</b>	<b>56.0</b>
<b>Non-OPEC</b>						
<b>Industrialized</b>						
United States . . . . .	9.7	9.0	9.2	9.0	9.4	9.7
Canada . . . . .	2.0	2.6	3.2	3.5	3.8	4.2
Mexico . . . . .	3.0	3.4	4.2	4.4	4.6	4.8
Australia . . . . .	0.7	0.7	0.9	0.9	0.9	0.9
North Sea . . . . .	4.2	6.3	6.7	6.5	6.3	6.2
Other. . . . .	0.5	0.8	0.8	0.8	0.8	0.7
<b>Total Industrialized</b> . . . . .	<b>20.1</b>	<b>22.8</b>	<b>25.0</b>	<b>25.1</b>	<b>25.8</b>	<b>26.5</b>
<b>Eurasia</b>						
China . . . . .	2.8	3.2	3.2	3.2	3.2	3.3
Former Soviet Union. . . . .	11.4	7.4	10.1	12.6	14.8	16.4
Eastern Europe . . . . .	0.3	0.3	0.3	0.3	0.3	0.4
<b>Total Eurasia</b> . . . . .	<b>14.5</b>	<b>10.9</b>	<b>13.6</b>	<b>16.1</b>	<b>18.3</b>	<b>20.1</b>
<b>Other Non-OPEC</b>						
Central and South America . . . . .	2.3	3.8	4.3	5.1	6.2	7.3
Middle East . . . . .	1.4	1.9	2.3	2.5	2.7	2.7
Africa . . . . .	2.2	2.9	3.3	4.3	5.3	6.8
Asia . . . . .	1.7	2.3	2.7	2.7	2.7	2.7
<b>Total Other Non-OPEC</b> . . . . .	<b>7.6</b>	<b>10.9</b>	<b>12.6</b>	<b>14.6</b>	<b>16.9</b>	<b>19.5</b>
<b>Total Non-OPEC</b> . . . . .	<b>42.2</b>	<b>44.6</b>	<b>51.2</b>	<b>55.8</b>	<b>61.0</b>	<b>66.1</b>
<b>Total World</b> . . . . .	<b>69.4</b>	<b>79.5</b>	<b>87.7</b>	<b>97.2</b>	<b>109.0</b>	<b>122.1</b>

Note: OPEC = Organization of Petroleum Exporting Countries.

Sources: **History:** Energy Information Administration (EIA), Energy Markets and Contingency Information Division. **Projections:** EIA, Office of Integrated Analysis and Forecasting, World Energy Projection System; and U.S. Department of the Interior, U.S. Geological Survey, *World Petroleum Assessment 2000* (Reston, VA, July 2000).

**Table D5. World Oil Production Capacity by Region and Country, Low Non-OPEC Supply Case, 1990-2020**  
 (Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	1999	2005	2010	2015	2020
<b>OPEC</b>						
<b>Persian Gulf</b>						
Iran . . . . .	3.2	3.9	4.2	4.3	4.5	4.8
Iraq . . . . .	2.2	2.9	3.3	3.9	4.6	6.2
Kuwait . . . . .	1.7	2.6	2.9	3.5	4.2	4.6
Qatar . . . . .	0.5	0.8	0.5	0.6	0.7	0.8
Saudi Arabia . . . . .	8.6	11.6	14.1	17.7	23.2	29.3
United Arab Emirates . . . . .	2.5	2.7	3.4	3.8	4.4	5.0
<b>Total Persian Gulf.</b> . . . . .	<b>18.7</b>	<b>24.5</b>	<b>28.4</b>	<b>33.8</b>	<b>41.6</b>	<b>50.7</b>
<b>Other OPEC</b>						
Algeria . . . . .	1.3	1.4	1.7	2.1	2.5	2.8
Indonesia . . . . .	1.5	1.7	1.5	1.5	1.5	1.5
Libya . . . . .	1.5	1.6	2.0	2.4	3.0	3.9
Nigeria . . . . .	1.8	2.3	2.7	3.1	3.7	4.5
Venezuela . . . . .	2.4	3.4	4.2	4.4	4.8	5.5
<b>Total Other OPEC.</b> . . . . .	<b>8.5</b>	<b>10.4</b>	<b>12.1</b>	<b>13.5</b>	<b>15.5</b>	<b>18.2</b>
<b>Total OPEC</b> . . . . .	<b>27.2</b>	<b>34.9</b>	<b>40.5</b>	<b>47.3</b>	<b>57.1</b>	<b>68.9</b>
<b>Non-OPEC</b>						
<b>Industrialized</b>						
United States . . . . .	9.7	9.0	8.8	8.4	8.5	8.7
Canada . . . . .	2.0	2.6	2.9	3.0	3.1	3.2
Mexico . . . . .	3.0	3.4	3.9	4.0	4.0	4.0
Australia . . . . .	0.7	0.7	0.8	0.8	0.8	0.7
North Sea . . . . .	4.2	6.3	6.4	6.2	5.7	5.5
Other. . . . .	0.5	0.8	0.8	0.8	0.8	0.7
<b>Total Industrialized</b> . . . . .	<b>20.1</b>	<b>22.8</b>	<b>23.6</b>	<b>23.2</b>	<b>22.9</b>	<b>22.8</b>
<b>Eurasia</b>						
China . . . . .	2.8	3.2	3.0	2.9	2.8	2.7
Former Soviet Union. . . . .	11.4	7.4	9.1	11.0	12.2	12.7
Eastern Europe . . . . .	0.3	0.3	0.3	0.3	0.3	0.3
<b>Total Eurasia</b> . . . . .	<b>14.5</b>	<b>10.9</b>	<b>12.4</b>	<b>14.2</b>	<b>15.3</b>	<b>15.7</b>
<b>Other Non-OPEC</b>						
Central and South America . . . . .	2.3	3.8	3.9	4.5	5.1	5.8
Middle East . . . . .	1.4	1.9	2.2	2.3	2.3	2.2
Africa . . . . .	2.2	2.9	2.8	3.5	4.2	5.0
Asia . . . . .	1.7	2.3	2.6	2.5	2.5	2.4
<b>Total Other Non-OPEC</b> . . . . .	<b>7.6</b>	<b>10.9</b>	<b>11.5</b>	<b>12.8</b>	<b>14.1</b>	<b>15.4</b>
<b>Total Non-OPEC</b> . . . . .	<b>42.2</b>	<b>44.6</b>	<b>47.5</b>	<b>50.2</b>	<b>52.3</b>	<b>53.9</b>
<b>Total World</b> . . . . .	<b>69.4</b>	<b>79.5</b>	<b>88.0</b>	<b>97.5</b>	<b>109.4</b>	<b>122.8</b>

Note: OPEC = Organization of Petroleum Exporting Countries.

Sources: **History:** Energy Information Administration (EIA), Energy Markets and Contingency Information Division. **Projections:** EIA, Office of Integrated Analysis and Forecasting, World Energy Projection System; and U.S. Department of the Interior, U.S. Geological Survey, *World Petroleum Assessment 2000* (Reston, VA, July 2000).